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Fraser et al.

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[54] AUTOMATED AUCTION PROTOCOL PROCESSOR

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[58] Field of Search 705/35, 36, 37

[56] References Cited

U.S. PATENT DOCUMENTS

2,134,118	10/1938	Foss	705/36
3,573,747	4/1971	Adams et al.	705/37
3,581,072	5/1971	Nymeyer	705/37
4,412,287	10/1983	Braddock, III	705/37
4,674,044	6/1987	Kalmus et al.	705/37
4,677,552	6/1987	Sibley, Jr.	705/37
4,823,265	4/1989	Nelson	705/35

4,903,201	2/1990	Wagner	705/37
4,980,826	12/1990	Wagner	705/37
5,101,353	3/1992	Lupien et al.	705/37
5,136,501	8/1992	Silverman et al.	705/37
5,168,446	12/1992	Wiseman	705/37
5,297,031	3/1994	Guterman et al.	705/37
5,710,889	1/1998	Clark et al.	345/344
5,727,165	3/1998	Ordish et al.	705/37

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[57] ABSTRACT

A data processing system for implementing transaction management of auction-based trading for specialized items such as fixed income instruments. The data processing system provides a highly structured trading protocol implemented through a sequence of trading paradigms. The system employs a distributed computer processing network linking together a plurality of commonly programmed controlled workstations. The protocol and its programmed controlling logic enhances trading efficiency, rewards market makers and fairly distributes market opportunity to system users.

30 Claims, 12 Drawing Sheets

